



Sealaska Corporation

RENEWABLE ENERGY FEASIBILITY STUDY

Sealaska Project Manager: Russell Dick
Technical Contact: Bob Lynette

October 2004

An Alaska Native Corporation

- One of 13 Alaska Native regional corporations created under the Alaska Native Claims Settlement Act
- Represent over 17,000 shareholders, approximately half of whom reside in SE Alaska
- Regional corporation for SE Alaska, which includes 12 village/urban corporations



Study Area – Southeast Alaska

12 Alaska Native Villages



Participants



Project Participant	Contact	Role
Sealaska Corporation	Russell Dick, Michele Metz	Project manager Assistant Lands Manager
Springtyme Company, L. L. C.	Robert Lynette	Technical contact, wind consultant
AP&T Solutions, LLC*	Bob Grimm, Larry Coupe	Financial Analyst, Engineer
John Wade Wind Consultant LLC	John Wade	Meteorologist, wind power analyst
Northwest Wildlife Consultants	Karen Kronner	Biologist
Met Tower Services	Mike Sailor	Wind tower installation

*A subsidiary of Alaska Power & Telephone Company



Project Overview

Objectives:

- ✓ Determine if deploying wind turbines and/or small hydro facilities make sense for the Sealaska villages that are currently using diesel fuel for power.
- ✓ If answer is positive, develop a business plan to implement development program(s).



Micro/Small-Hydroelectric Power

- Collect feasibility reports for studies that have previously been conducted.
- Evaluate whether application of newer technology or construction methods could result in cost savings.

Micro-hydro Study Results

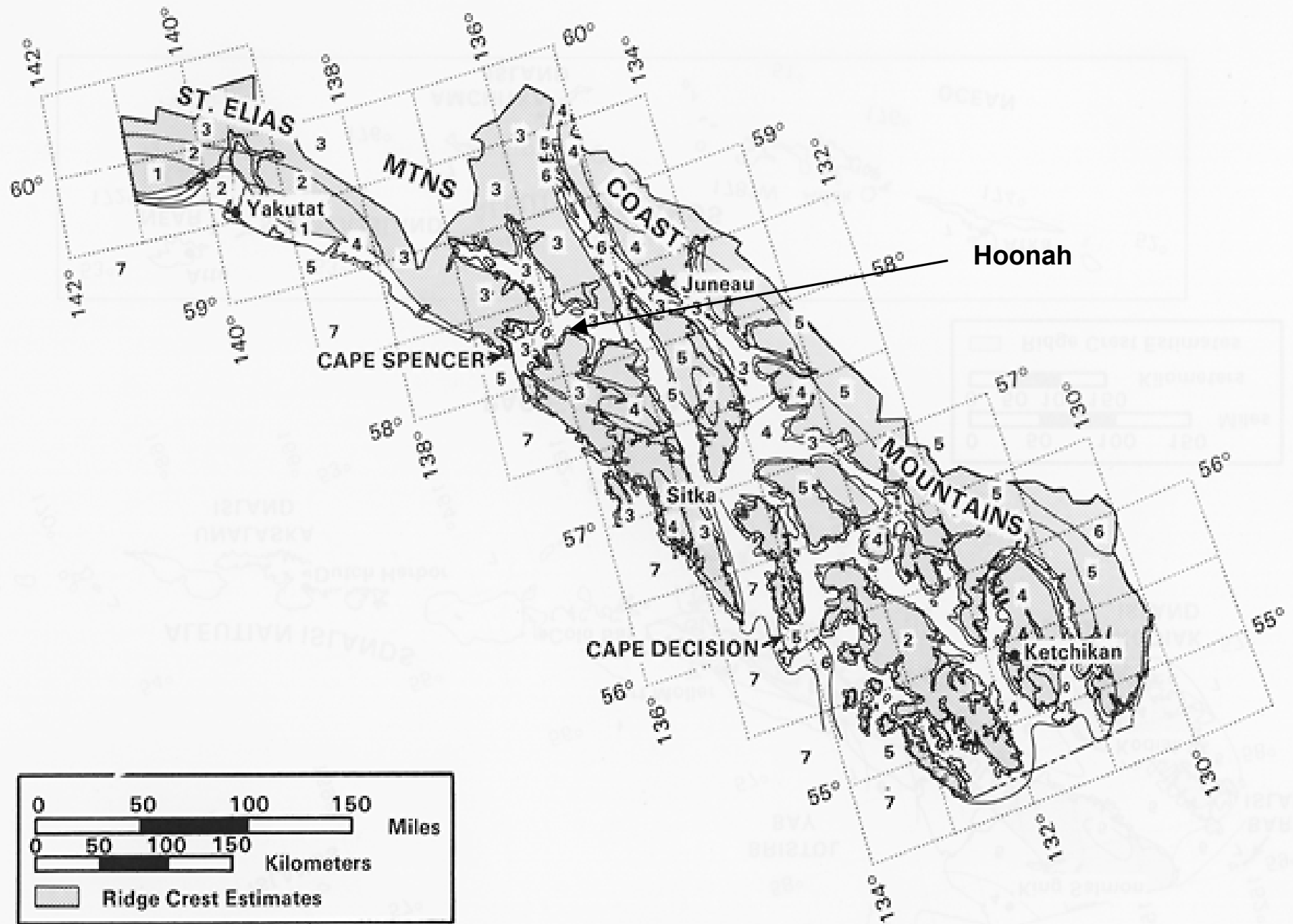
Project Feasibility Summary

Community	Project	Construction Cost (\$2003)	Economic Feasibility	Environmental Feasibility
Angoon	Thayer Creek (1,000 kW)	\$8,700,000	Low	Moderate
Hoonah	Gartina Creek (600 kW)	\$3,750,000	Moderate	Moderate
	Water Supply Creek (600 kW)	\$3,330,000	Moderate	High
Hydaburg	Reynolds Creek (5,000 kW)	\$9,400,000	Low	High
Kake	Cathedral Falls Creek (800 kW)	\$5,300,000	Moderate	Moderate
Klukwan	Walker Lake (1,900 kW)	\$9,400,000	Low	Unknown
Yakutat	Chicago Harbor (1,400 kW)	\$9,300,000	Moderate	Unknown

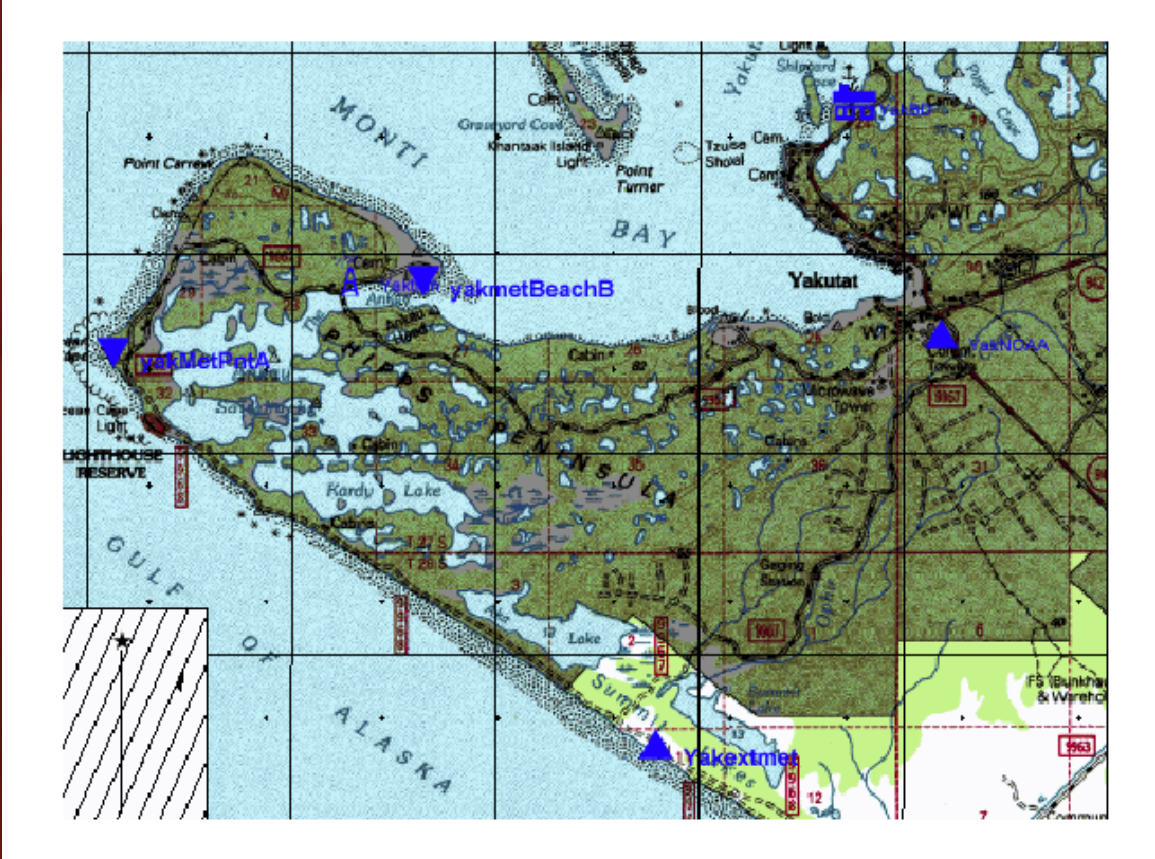


Project Status - Wind

- Field trips conducted in July 2003. Two potential sites identified:
 - Yakutat
 - Hoonah
- Two anemometer towers installed at Yakutat 8/04
- Hoonah permitted; anemometry ordered, delivered to Juneau, and scheduled to be installed in next 30 days.



A large, colorful wooden carving of a Totem Pole figure, featuring a large eye and a beak, set against a red background. The carving is made of wood and is painted with various colors including black, white, red, and blue. The figure has a large, stylized eye with a black pupil and a white sclera, and a large, curved beak. The background is a solid red color.



Plant of Concern



Avoiding Moonwort Fern



Yakutat Site #1



ANEMOM-1.JPG

Second Site at Yakutat



SECOND-1.JPG

Signs at Sites



EXPERIMENTAL TEST STATION

This station installed to see if wind power can lower Yakutat's electricity costs.

Done in conjunction with:

- YAK-TAT-KWAN, INC.
- YAKUTAT POWER
- U.S. DEPT. OF ENERGY

Please help protect this site.

*Report any damage to:
Yakutat Power @ 784-3242*

Thank You

Sealaska
CORPORATION



Activities Yet to be Completed

- Measure winds ~ one year
- If winds favorable, develop preliminary site layout and business plan.